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StreamPro-100ASENDE

SDVoE AVP2000 IP solution Seamless Matrix/Video Wall/Multiview -- Fiber Port

PRODUCT OVERVIEW

This **StreamPro-100ASEN/DE** is an SDVoE-Compliant, All-In-One AV over IP solution that provides highest-quality, uncompressed 4K60 and zero-frame latency audio/video extension over a standard 10G Fiber Network Switch. It can transfer advanced HDMI content such as HDR (high dynamic range), full color-depth and multi-channel HD Bitstream audio. Multiple control and data signals can be transmitted along with audio and video signals simultaneously , including RS-232 and 1G Ethernet. The product features a 10G fiber port, which can extend signals up to 40kmvia a single-mode fiber cable, or 300m via a multi-mode fiber cable. The 1GLAN port is for the purpose of utility port of product management or Ethernet extension. The encoder supports HDMITM loop out, the decoder HDMI output supports video scaling. The product supports bi-directional analog stereo audio pass-through. It supports RS-232 with 12V voltage output on connector.

This product combines multiple encoders/decoders with one or more 10GbE fiber switches to form an ideal IP solution for distributed 4K60 video matrix, multiview systems, or video wall systems.

KEY FEATURES

- **Separate Encoder/Decoder Design:** Built with independent modules and a 10G fiber optical port for high-speed and stable signal transmission.
- **4K UHD Video Resolution:** Supports 4K2K@60Hz 4:4:4 video quality, fully compliant with HDMI™ 2.0b standards.
- **HDCP 2.2 Compliance:** Ensures secure transmission of protected 4K content with 18Gbps video bandwidth.
- **HDR Format Compatibility:** Enables seamless HDR10, Dolby Vision, and HLG signal pass-through for enhanced color and contrast.
- **Comprehensive Audio Format Support:** Handles LPCM2/5.1/7.1, Dolby Digital, Dolby Digital+, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio, and DTS:X.
- **Zero-Frame Latency Mode:** Provides real-time video and audio transmission without perceptible delay.
- **HDMI™ Loop Out (Encoder):** Allows local monitoring or cascading connections directly from the encoder.
- **Dual Network Ports:** Equipped with one 1G LAN port and one 10G fiber port for flexible network configurations.
- **Comprehensive Control Options:** Offers control via CEC, RS-232, TCP/IP, and Web GUI for easy system integration.
- **10G Managed Network Compatibility:** Designed to operate seamlessly within 10G managed network switch environments.
- **Dedicated IP Controller Compatibility:** Fully compatible with a dedicated IP controller box for centralized management.

APPLICATIONS

- Boardrooms
- Classrooms
- Auditorium

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TECHNICAL SPECIFICATIONS

System Specifications

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	594MHz/18Gbps
Video Compression Standard	SDVoE
Video Network Bandwidth	10Gbps (SFP+)
Audio Latency	Zero latency
Video Latency	Zero latency
Input Video Resolution	640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x1024p 60Hz, 1360x768p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1600x1200p60Hz, 720x480i59.94Hz (480i59), 720x480p59.94Hz (480p59), 720x576i50Hz (576i50), 720x576p50Hz (576p50), 1280x720p50Hz (720p50), 1280x720p59.94Hz (720p59), 1280x720p60Hz (720p60), 1920x1080i50Hz (1080i50), 1920x1080i59.94Hz (1080i59), 1920x1080i60Hz (1080i60), 1920x1080p23.98Hz (1080p23), 1920x1080p24Hz (1080p24), 1920x1080p25Hz (1080p25), 1920x1080p29.97Hz (1080p29), 1920x1080p30Hz (1080p30), 1920x1080p50Hz (1080p50), 1920x1080p59.94Hz (1080p59), 1920x1080p60Hz (1080p60), 3840x2160p23.98Hz (2160p23), 3840x2160p24Hz (2160p24), 3840x2160p25Hz (2160p25), 3840x2160p29.97Hz (2160p29), 3840x2160p30Hz (2160p30), 3840x2160p50Hz (2160p50), 3840x2160p59.94Hz (2160p59), 3840x2160p60Hz (2160p60), 4096x2160p23.98Hz, 4096x2160p24Hz, 4096x2160p25Hz, 4096x2160p29.97Hz, 4096x2160p30Hz, 4096x2160p50Hz, 4096x2160p59.94Hz, 4096x2160p60Hz
Output Video Resolution	Auto, 3840x2160p60, 3840x2160p50, 4096x2160p60, 4096x2160p50, 3840x2160p30, 3840x2160p25, 1920x1200p60RB, 1920x1080p60, 1920x1080p50, 1360x768p60, 1280x800p60, 1280x720p60, 1280x720p50, 1024x768p60
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Color Depth	8/10/12-bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	LPCM2/5.1/7.1, Dolby Digital, Dolby Digital+, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio, DTS:X
Audio Sample Rate	22.05/24/32/44.1/48/88.2/96/176.4/192KHz
Transmission Distance	HDMITM passive cable: 16.4ft/5m (4K60); 33ft/10m (4K30) 49ft/15m (1080p60) Single-mode optical fiber cable: 40km Multi-mode optical fiber cable: 300m (depending on the parameters of the 10G optical module)
ESD Protection	IEC 61000_4_2: ±15kV (Air-gap discharged) & ±8kV (Contact Discharge)

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TECHNICAL SPECIFICATIONS

Connection Specifications

Encoder	Input: 1x IN [HDMITM Type A, 19-pin female] 1x AUDIO IN [3.5mm audio jack] Output: 1x SFP+ [Fiber slot, 10Gbps] 1x OUT [HDMITM Type A, 19-pin female] 1x AUDIO OUT [3.5mm audio jack] Control: 1x 1G LAN [RJ45 jack] 1x RS-232 [4pin-3.5mm phoenix connector]
Decoder	Input: 1x SFP+ [Fiber slot, 10Gbps] 1x AUDIO IN [3.5mm audio jack] Output: 1x OUT [HDMITM Type A, 19-pin female] 1x AUDIO OUT [3.5mm audio jack] Control: 1x 1G LAN [RJ45 jack] 1x RS-232 [4pin-3.5mm phoenix connector]

Mechanical Specifications

Housing	Metal Enclosure
Color	Black
Dimensions	Encoder/Decoder: 95mm [W] x 120mm [D] x 21.5mm [H]
Weight	Encoder: 329g; Decoder: 323g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 12V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption(Max)	Encoder: 6.72W Decoder: 6.36W
Operating Temperature	32°F ~ 104°F / 0°C ~ 40°C
Storage Temperature	-4°F ~ 140°F / -20°C ~ 60°C
Operating Humidity	20% ~ 80% (relative humidity, no condensation)
Storage Humidity	10% ~ 90% (relative humidity, no condensation)

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Connection Diagram :

www.resoundify.com